



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/501,739

07/16/2004

Gap-Chun Back

08015.0021

4883

22852

7590

05/30/2008

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER  
LLP

901 NEW YORK AVENUE, NW  
WASHINGTON, DC 20001-4413

EXAMINER

TANG, KAREN C

ART UNIT

PAPER NUMBER

2151

MAIL DATE

DELIVERY MODE

05/30/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/501,739	<b>Applicant(s)</b> BACK ET AL.	
	<b>Examiner</b> KAREN C. TANG	<b>Art Unit</b> 2151	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 17 March 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1 and 7-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 7-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

- A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/7/08 has been entered.
- Claims 1, 7-17 are presented for further examination.

### ***Response to Arguments***

Applicant's arguments with respect to claims 1, 7-17 have been considered but are moot in view of the new ground(s) of rejection.

Applicant argues that Hunter does not disclosed "determining if the received internet connection request signal is a number domain connection request signal or a letter domain connection request signal"

Examiner disagrees: Hunter's system is able to understand the type of signal that is retrieved in order to convert (decode) the signal into the desired format. Therefore, Hunter determines whether the received internet connection request signal is a number domain connection request signal or a letter domain connection request signal (column 5, lines 58-65 teach that the linkage code is numeric, i.e. number domain; column 2, lines 40-56 and column 4, lines 65-67 teach a client software program, a program that process/decode the received linkage code, decoding involves the determining and checking the type of the code received.);

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 7-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hunter (US 6,865,608) in view of O'Neill et al hereinafter O'Neill (US 7,362,727) in further view of Peerson et al hereinafter Peerson (US 2003/0033155).

1. Referring to claim 1, Hunter discloses a method for connecting to the internet using a mobile terminal, the method comprising:

receiving an internet connection request signal from the mobile terminal (column 1, lines 24-27 and column 2, lines 14-15: request send by cellular phone to connect with the internet by entry of a linkage code);

determining whether the received internet connection request signal is a number domain connection request signal (column 5, lines 58-65 teach that the linkage code is numeric, i.e. number domain; column 2, lines 40-56 and column 4, lines 65-67 teach a client software program, a program that process/decode the received linkage code, decoding involves the determining and checking the type of the code received.);

determining whether a number domain of the number domain connection request signal exists in a pre-stored number structure, wherein the number domain comprises at least one of a

Art Unit: 2100

contents classification number, a first domain number, and a second domain number (figure 3A, elements 301-302 depicts the step for determining if the linkage code exists in pre-stored memory. Column 5, lines 24-26 and column 6, lines 37-40 teach the database that stores the URL associated with the linkage code; column 5, lines 1-18 and column 7, lines 19-24 teach that the linkage code contains subcodes: the routing identification code (RID) and item identification (IID), Hunter also discloses that the linkage code can be a customized format which implies that it may include a classification number, a first domain number and a second domain number);

converting the number domain into a letter domain if the number domain exists in the pre-stored number structure (column 4, lines 65-67 teach decoded linkage code. Column 7, lines 22-24 teach RID within the linkage code is used to obtain the URL address, where the URL address is the letter domain),

transmitting website information corresponding to the converted letter domain to the mobile terminal (column 8, lines 55-56 teach the web content being transfer to the mobile communication device), wherein: the first domain is a highest level domain (column 5, lines 1-7, linkage code can be customized to a preferred format, including a highest level domain); and the second domain number is a number corresponding to a name of a site (column 7, lines 22-24 teach the routing identification number (RID) that corresponds to the URL template, where URL template contains the name of the site) and corresponding to a letter designated on a key pad on the mobile terminal (column 5, lines 1-7 and lines 54-65 teach the number domain is the number associated to the cell phone numeric keypad).

Although Hunter disclosed the invention substantially as claimed, Hunter is silent regarding “wherein the number of bytes allocated to classification in a number domain is predetermined”.

O’Neill, in an analogous art disclosed “wherein the number of bytes allocated to classification in a number domain is predetermined” (refer to Col 7, Lines 25-40).

Hence, providing functionalities disclosed by O’Neill, would be desirable for a user to implement in order to allow the server to expertise the processing of user's request by processing the numerical IP address rather than the domain name address (Peerson, 0046).

Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to modify the system of Hunter by including the features presented by O’Neill.

2. Referring to claim 7, the method of claim 1, Hunter discloses wherein the website information is transmitted in a divided size corresponding to a size of an LCD of the mobile terminal (Column 6, lines 11-43 teach the display of the web content to the mobile terminal. The proxy server mediate the transmission of the website information, which would include transmitting the information in appropriate size to fit the screen of the mobile).

3. Referring to claim 8: the method of claim 1, Hunter discloses wherein the number domain connection request signal comprises an identifier for identifying the number domain connection request signal, the number domain inputted by a user, and a user index for identifying the user (Column 5, lines 28-44 and column 9, lines 23-25 teach the user identification code

Art Unit: 2100

(UID) assigned to the mobile user and associate the connection request (linkage code) with UID).

4. Referring to claim 9, Hunter discloses: a method for connecting to the Internet using a mobile telephone, the method comprising:

receiving an internet connection request signal from the mobile telephone (column 1, lines 24-27 and column 2, lines 14-15: request send by cellular phone to connect with the internet);

determining whether the received internet connection request signal is a number domain connection request signal or a letter domain connection request signal (column 5, lines 58-65 teach that the linkage code is numeric, i.e. number domain; column 2, lines 40-56 and column 4, lines 65-67 teach a client software program, a program that process/decode the received linkage code, decoding involves the determining and checking the type of the code received.);

analyzing a number structure of a number domain of the number domain connection request signal if the number domain connection request signal is received, wherein the number domain comprises at least one of a contents classification number, a first domain number, and a second domain number (column 2, lines 40-56 and column 4, lines 65-67 teach a client software program, a program that process/decode the received linkage code; column 7, lines 19-39 teach how the linkage code is broken up and utilized to retrieve corresponding URL; column 5, lines 1-18 and column 7, lines 19-24 teach that the linkage code contains subcodes: the routing identification code (RID) and item identification (IID), Hunter also discloses that the linkage

Art Unit: 2100

code can be a customized format which implies that it may include a classification number, a first domain number and a second domain number);

determining whether the analyzed number structure exists in a pre-stored number structure (figure 3A, elements 301-302 depicts the step for determining if the linkage code exists in pre-stored memory. Column 5, lines 24-26 and column 6, lines 37-40 teach the database that stores the URL associated with the linkage code);

converting the number domain into a letter domain if the analyzed number structure exists in the pre-stored number structure (column 4, lines 65-67 teach the decoded linkage code. Column 7, lines 22-24 teach RID within the linkage code is used to obtain the URL address, where the URL address are the letter domain); and

transmitting information of a site corresponding to the converted letter domain through a network (column 8, lines 55-56 teach the web content being transfer to the mobile communication device), wherein the first domain number is a highest level domain (column 5, lines 1-7, linkage code can be customized to a preferred format, including a highest level domain); and the second domain number is a number corresponding to a name of the site (column 7, lines 22-24 teach the routing identification number (RID) that corresponds to the URL template, where URL template contains the name of the site) and corresponding to a letter designated on a key pad of the mobile telephone (column 5, lines 1-7 and lines 54-65 teach the number domain is the number associated to the cell phone numeric keypad).

Although Hunter disclosed the invention substantially as claimed, Hunter is silent regarding “wherein the number of bytes allocated to classification in a number domain is predetermined”.



O'Neill, in an analogous art disclosed "wherein the number of bytes allocated to classification in a number domain is predetermined" (refer to Col 7, Lines 25-40).

Hence, providing functionalities disclosed by O'Neill, would be desirable for a user to implement in order to allow the server to expertise the processing of user's request by processing the numerical IP address rather than the domain name address (Peerson, 0046).

Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to modify the system of Hunter by including the features presented by O'Neill.

5. Referring to claim 10: the method of claim 9, Hunter discloses further discloses:

receiving the number domain corresponding to the letter domain of the site from an operator of the site (column 5, lines 5-6, linkage code) to a letter domain of a site (column 5, lines 13-18 URL link associated to the linkage code; column 5, lines 13-18 teach the routing server as the operator of the site);

determining whether the number domain exists in the pre-stored number domain (column 5, lines 13-16 teach the URL link being retrieved based on the linkage code which implies that the information relating to the linkage code was pre-stored); and

registering the received number domain as a number domain of the site if the same number domain does not exist in the pre-stored number domain (column 5, lines 24-26 teach the routing identification code (RID) being cached for future rapid lookup).

6. Referring to claim 11: The method of claim 9, further comprising registering at least one of the number domain and the letter domain corresponding to the site (column 9, line 45 teach

Art Unit: 2100

the registration process. column 5, lines 24-26 teach the routing identification code (RID) being cached for future rapid lookup).

7. Referring to claim 12, Hunter discloses a method of connecting to the internet wirelessly using a number domain, the method comprising:

receiving an internet connection request signal and key data which includes number from a mobile terminal through a wireless network (column 1, lines 24-27: request send by cellular phone to connect to the internet using linkage code. column 2, lines 14-15 teach the request is passed to Wireless Application Protocol (WAP) using wireless protocols), wherein the key data comprises a number domain of the internet connection request signal and the number domain comprises at least one of a contents classification number, a first domain number, and a second domain number (column 5, lines 1-18 and column 7, lines 19-24 teach that the linkage code contains subcodes: the routing identification code (RID) and item identification (IID), Hunter also discloses that the linkage code can be a customized format which implies that it may include a classification number, a first domain number and a second domain number);

analyzing a number structure of the number domain if the internet connection request signal is received (column 2, lines 40-56 and column 4, lines 65-67 teach a client software program, a program that process/decode the received linkage code; column 7, lines 19-39 teach how the linkage code is broken up and utilized to retrieve corresponding URL);

determining whether analyzed number structure exists in a pre-stored number structure (column 5, lines 13-16 teach the URL link being retrieved based on the linkage code which implies that the information relating to the linkage code was pre-stored);

converting the number domain into a letter domain if the analyzed number structure exists in the pre-stored number structure (column 5, lines 11-18 teach the conversion of linkage code/data to obtain URL link which contain the domain name); and

routing such that a user connects to a site corresponding to the letter domain (column 8, lines 53 discloses the wireless device being connected to the internet corresponding to the targeted URL), wherein the first domain number is a highest level domain (column 5, lines 1-7, linkage code can be customized to a preferred format, including a highest level domain); and the second domain number is a number corresponding to a name of the site (column 7, lines 22-24 teach the routing identification number (RID) that corresponds to the URL template, where URL template contains the name of the site) and corresponding to a letter designated on a key pad of the mobile terminal (column 5, lines 1-7 and lines 54-65 teach the number domain is the number associated to the cell phone numeric keypad).

Although Hunter disclosed the invention substantially as claimed, Hunter is silent regarding “wherein the number of bytes allocated to classification in a number domain is predetermined”.

O’Neill, in an analogous art disclosed “wherein the number of bytes allocated to classification in a number domain is predetermined” (refer to Col 7, Lines 25-40).

Hence, providing functionalities disclosed by O’Neill, would be desirable for a user to implement in order to allow the server to expertise the processing of user's request by processing the numerical IP address rather than the domain name address (Peerson, 0046).

Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to modify the system of Hunter by including the features presented by O’Neill.

8. Referring to claim 13, Hunter discloses: an internet connection system using a mobile telephone, the system comprising:

means for receiving an internet connection request signal from the mobile telephone (column 1, lines 24-27 and column 2, lines 14-15, request send by cellular phone to connect with the internet);

means for determining whether the received internet connection request signal is a number domain connection request signal (column 4, lines 66-67 teach the decoded linkage code. column 2, lines 40-56 and column 4, lines 65-67 teach a client software program, a program that process the received linkage code, determining and checking the type of the code received would be a necessary step before decoding it.);

means for determining whether a number domain of the number domain connection request signal exists in a pre-stored number structure (figure 3A, elements 301-302 depicts the step for determining if the linkage code exists in pre-stored memory. Column 5, lines 24-26 and column 6, lines 37-40 teach the database that stores the URL associated with the linkage code), wherein the number domain comprises at least one of a contents classification number, a first domain number and a second domain number (column 5, lines 1-18 and column 7, lines 19-24 teach that the linkage code contains subcodes: the routing identification code (RID) and item identification (IID), Hunter also discloses that the linkage code can be a customized format which implies that it may include a classification number, a first domain number and a second domain number);

means for converting the number domain into a letter domain if the number domain exists in the pre-stored number structure (column 5, lines 11-18 teach the conversion of linkage code/data to obtain URL link which contain the domain name); and

means for transmitting information of a site corresponding to the converted letter domain through a network (column 8, lines 55-56 teach the web content being transfer to the mobile communication device), wherein the first domain number is a highest level domain (column 5, lines 1-7, linkage code can be customized to a preferred format, including a highest level domain); and the second domain number is a number corresponding to a name of the site (column 7, lines 22-24 teach the routing identification number (RID) that corresponds to the URL template, where URL template contains the name of the site) and corresponding to a letter designated on a key pad of the mobile telephone (column 5, lines 1-7 and lines 54-65 teach the number domain is the number associated to the cell phone numeric keypad).

Although Hunter disclosed the invention substantially as claimed, Hunter is silent regarding “wherein the number of bytes allocated to classification in a number domain is predetermined”.

O’Neill, in an analogous art disclosed “wherein the number of bytes allocated to classification in a number domain is predetermined” (refer to Col 7, Lines 25-40).

Hence, providing functionalities disclosed by O’Neill, would be desirable for a user to implement in order to allow the server to expertise the processing of user's request by processing the numerical IP address rather than the domain name address (Peerson, 0046).

Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to modify the system of Hunter by including the features presented by O’Neill.

9. Referring to claim 14: the system of claim 13, Hunters discloses means for receiving the number domain (column 5, lines 5-6, linkage code) corresponding to the letter domain (column 5, lines 13-18 URL link associated to the linkage code) from an operator the site (column 5, lines 13-18 teach the routing server as the operator of the site); means for determining whether the number domain exists in the pre-stored number domain (column 5, lines 13-16 teach the URL link being retrieved based on the linkage code which implies that the information relating to the linkage code was pre-stored); and means for registering the received number domain as a number domain of the site the number domain does not exist in the pre-stored number domain (column 9, line 45 discloses registration process and column 5, lines 24-26 teach the routing identification code (RID) being cached for future rapid lookup).

10. Referring to claim 15, Hunter discloses an internet connection system using a mobile telephone, the system comprising:

means for receiving an internet connection request signal from the mobile telephone (the abstract discloses a system that receives a request to access the internet through receiving a linkage codes from a cell phone);

means for determining whether the received internet connection request signal is a number domain connection request signal or a letter domain connection request signal (column 5, lines 58-65 teach that the linkage code is numeric, i.e. number domain; column 2, lines 40-56 and column 4, lines 65-67 teach a client software program, a program that process/decode the

Art Unit: 2100

received linkage code, decoding involves the determining and checking the type of the code received);

means for analyzing a number structure of a number domain of the number domain connection request signal if the number domain connection request signal is received, wherein the number domain comprises at least one of a contents classification number, a first domain number, and a second domain number (column 2, lines 40-56 and column 4, lines 65-67 teach a client software program, a program that process/decode the received linkage code; column 7, lines 19-39 teach how the linkage code is broken up and utilized to retrieve corresponding URL; column 5, lines 1-18 and column 7, lines 19-24 teach that the linkage code contains subcodes: the routing identification code (RID) and item identification (IID), Hunter also discloses that the linkage code can be a customized format which implies that it may include a classification number, a first domain number and a second domain number);

means for determining whether the analyzed number structure exists in pre-stored number structure (figure 3A, elements 301-302 depicts the step for determining if the linkage code exists in pre-stored memory. Column 5, lines 24-26 and column 6, lines 37-40 teach the database that stores the URL associated with the linkage code);

means for converting the number domain into a letter domain if the analyzed number structure exists in the pre-stored number structure (column 5, lines 13-16 and column 7, lines 23-25 the URL link associated to the linkage code/RID are the letter domain associated to the linkage code); and means for transmitting information of a site corresponding to the converted letter domain through a network (column 8, lines 55-56 teach the web content being transfer to the mobile communication device), wherein: the first domain number is a highest level domain

Art Unit: 2100

(column 5, lines 1-7, linkage code can be customized to a preferred format, including a highest level domain); and the second domain number is a number corresponding to a name of the site (column 7, lines 22-24 teach the routing identification number (RID) that corresponds to the URL template, where URL template contains the name of the site) and corresponding to a letter designated on a key pad of the mobile telephone (column 5, lines 1-7 and lines 54-65 teach the number domain is the number associated to the cell phone numeric keypad).

Although Hunter disclosed the invention substantially as claimed, Hunter is silent regarding “wherein the number of bytes allocated to classification in a number domain is predetermined”.

O’Neill, in an analogous art disclosed “wherein the number of bytes allocated to classification in a number domain is predetermined” (refer to Col 7, Lines 25-40).

Hence, providing functionalities disclosed by O’Neill, would be desirable for a user to implement in order to allow the server to expedite the processing of user's request by processing the numerical IP address rather than the domain name address (Peerson, 0046).

Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to modify the system of Hunter by including the features presented by O’Neill.

11. Referring to claim 16, Hunter discloses: a system for connecting to the Internet wirelessly using a number-based domain, the system comprising:

a memory in which a program is stored (column 9, lines 42-58 teach program running on a computer system/machine. It is inherent for a computer system to have memory/storage); and



a processor executing the program coupled to the memory (column 7, lines 57-58 teach program components can be distinct processes running on the same computer machines, computer machines would have processor to run the program), wherein the program performs a method comprising:

receiving an internet connection request signal from a mobile terminal (the abstract discloses a system that receives a request to access the internet through receiving a linkage codes from a cell phone; column 1, lines 24-27, column 2, lines 14-15, linkage code is enter into the mobile terminal);

determining whether the received internet connection request signal is a number domain connection request signal (column 1, lines 24-27 and column 5, lines 58-61 linkage code is represented by numerical digit; column 2, lines 40-56 and column 4, lines 65-67 teach a client software program, a program that process/decode the received linkage code, decoding involves the determining and checking the type of the code received.),

determining whether a number domain of the number domain connection request signal exists in a pre-stored number structure, wherein the number domain comprises at least one of a contents classification number, a first domain number, and a second domain number (figure 3A, elements 301-302 depicts the step for determining if the linkage code exists in pre-stored memory; column 5, lines 1-18 and column 7, lines 19-24 teach that the linkage code contains subcodes: the routing identification code (RID) and item identification (IID), Hunter also discloses that the linkage code can be a customized format which implies that it may include a classification number, a first domain number and a second domain number),

Art Unit: 2100

converting the number domain into a letter domain if the number domain exists in the pre-stored number structure (Column 5, lines 24-26 and column 6, lines 37-40 teach the database that stores the URL associated with the linkage code; conversion of the inputted number domain into letter domain is taught in column 4, lines 65-67 as decoded linkage code. Column 7, lines 22-24 teach RID within the linkage code is used to obtain the URL address, where the URL address are the letter domain); and

transmitting information of a website corresponding to the converted letter domain to the mobile terminal through a network by the program (column 2, lines 53-56 and column 8, lines 55-56 web content being transfer to the mobile communication device by client program), wherein: the first domain number is a highest level domain (column 5, lines 1-7, linkage code can be customized to a preferred format, including a highest level domain); and the second domain number is a number corresponding to a name of the website (column 7, lines 22-24 teach the routing identification number (RID) that corresponds to the URL template, where URL template contains the name of the site) and corresponding to a letter designated on a key pad of the mobile terminal (column 5, lines 1-7 and lines 54-65 teach the number domain is the number associated to the cell phone numeric keypad).

Although Hunter disclosed the invention substantially as claimed, Hunter is silent regarding “wherein the number of bytes allocated to classification in a number domain is predetermined”.

O’Neill, in an analogous art disclosed “wherein the number of bytes allocated to classification in a number domain is predetermined” (refer to Col 7, Lines 25-40).

Art Unit: 2100

Hence, providing functionalities disclosed by O'Neill, would be desirable for a user to implement in order to allow the server to expertise the processing of user's request by processing the numerical IP address rather than the domain name address (Peerson, 0046).

Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to modify the system of Hunter by including the features presented by O'Neill.

12. Referring to claim 17, Hunter discloses: a system for connecting to the Internet wirelessly using a number-base domain, the system comprising (column 1, lines 24-27 system to connect a wireless device to the internet using linkage code, column 5, lines 57-60 linkage code is numeric digits):

a memory in which program is stored (column 9, lines 42-58 teach program running on a computer system/machine. It is inherent for a computer system to have memory/storage); and

a processor executing the program coupled to the memory (column 7, lines 57-58 teach program components can be distinct processes running on the same computer machines, computer machines would have processor to run the program), wherein the program performs a method comprising:

receiving an internet connection request signal from a mobile terminal (column 1, lines 24-27, column 2, lines 14-15, request to connect to the internet by entering the linkage code into the mobile terminal);

determining whether the received internet connection request signal is a number domain connection request signal or a letter domain connection request signal (column 5, lines 58-65 teach that the linkage code is numeric, i.e. number domain; column 2, lines 40-56 and column 4,

Art Unit: 2100

lines 65-67 teach a client software program, a program that process/decode the received linkage code, decoding involves the determining and checking the type of the code received.);

analyzing a number structure of a number domain of the number domain connection request signal if the number domain connection request signal is received, wherein the number domain comprises at least one of a contents classification number, a first domain number, and a second domain number (column 2, lines 40-56 and column 4, lines 65-67 teach a client software program, a program that process/decode the received linkage code; column 7, lines 19-39 teach how the linkage code is broken up and utilized to retrieve corresponding URL; column 5, lines 1-18 and column 7, lines 19-24 teach that the linkage code contains subcodes: the routing identification code (RID) and item identification (IID), Hunter also discloses that the linkage code can be a customized format which implies that it may include a classification number, a first domain number and a second domain number);

determining whether the analyzed number structure exists in pre-stored number structure (figure 3A, elements 301-302 depicts the step for determining if the linkage code exists in pre-stored memory. Column 5, lines 24-26 and column 6, lines 37-40 teach the database that stores the URL associated with the linkage code);

converting the number domain into a letter domain if the analyzed number structure exists in the pre-stored number structure (conversion of the inputted number domain into letter domain is taught in column 4, lines 65-67 as decoded linkage code. Column 7, lines 22-24 teach RID within the linkage code is used to obtain the URL address, where the URL address are the letter domain); and

transmitting information of a site corresponding to the converted letter domain through a network by the program (column 2, lines 53-56 and column 8, lines 55-56 web content being transfer to the mobile communication device by client program), wherein the first domain number is a highest level domain (column 5, lines 1-7, linkage code can be customized to a preferred format, including a highest level domain); and the second domain number is a number corresponding to a name of the website (column 7, lines 22-24 teach the routing identification number (RID) that corresponds to the URL template, where URL template contains the name of the site) and corresponding to a letter designated on a key pad of the mobile terminal (column 5, lines 1-7 and lines 54-65 teach the number domain is the number associated to the cell phone numeric keypad).

Although Hunter disclosed the invention substantially as claimed, Hunter is silent regarding “wherein the number of bytes allocated to classification in a number domain is predetermined”.

O’Neill, in an analogous art disclosed “wherein the number of bytes allocated to classification in a number domain is predetermined” (refer to Col 7, Lines 25-40).

Hence, providing functionalities disclosed by O’Neill, would be desirable for a user to implement in order to allow the server to expertise the processing of user's request by processing the numerical IP address rather than the domain name address (Peerson, 0046).

Therefore, at the time of the invention, it would have been obvious to one of ordinary skill in the art to modify the system of Hunter by including the features presented by O’Neill.

***Conclusion***

**Examiner's Notes:** Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner. In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

A shortened statutory period for reply to this Office action is set to expire THREE MONTHS from the mailing date of this action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen C. Tang whose telephone number is (571)272-3116. The examiner can normally be reached on M-F 7 - 3.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (571)272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published

Art Unit: 2100

applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/K. C. T./

Examiner, Art Unit 2151

/John Follansbee/

Supervisory Patent Examiner, Art Unit 2151